

Appendix A

Toxic Air Contaminant Identification List June 1996

I. Substances identified as Toxic Air Contaminants by the Air Resources Board, pursuant to the provisions of AB 1807 and AB 2728** (includes all Hazardous Air Pollutants listed in the Federal Clean Air Act Amendments of 1990).**

Acetaldehyde	Cresols/Cresylic acid (isomers and mixtures)	Ethylidene dichloride (1,1-dichloroethane)
Acetamide	o-Cresol	*Formaldehyde
Acetonitrile	m-Cresol	Heptachlor
Acetophenone	p-Cresol	Hexachlorobenzene
2-Acetylaminofluorene	Cumene	Hexachlorobutadiene
Acrolein	2,4-D, salts and esters	Hexachlorocyclopentadiene
Acrylamide	DDE	Hexachloroethane
Acrylic acid	Diazomethane	Hexamethylene-1,6-diisocyanate
Acrylonitrile	Dibenzofurans	Hexamethylphosphoramide
Allyl chloride	1,2-Dibromo-3-chloropropane	Hexane
4-Aminobiphenyl	Dibutylphthalate	Hydrazine
Aniline	1,4-Dichlorobenzene(p)	Hydrochloric acid
o-Anisidine	3,3-Dichlorobenzidine	Hydrogen fluoride (hydrofluoric acid)
*Asbestos	Dichloroethyl ether	Hydroquinone
*Benzene (including benzene from gasoline)	[Bis(2-chloroethyl)ether]	*Inorganic arsenic
Benzidine	1,3-Dichloropropene	Isophorone
Benzotrithloride	Dichlorvos	Lindane (all isomers)
Benzyl chloride	Diethanolamine	Maleic anhydride
Biphenyl	N,N-Dimethylaniline	Methanol
Bis(2-ethylhexyl)phthalate (DEHP)	Diethyl sulfate	Methoxychlor
Bis(chloromethyl)ether	3,3-Dimethoxybenzidine	Methyl bromide (bromomethane)
Bromoform	Dimethyl aminoazobenzene	Methyl chloride (chloromethane)
*1,3-Butadiene	3,3-Dimethyl benzidine	Methyl chloroform (1,1,1-trichloroethane)
*Cadmium (metallic cadmium and cadmium compounds)	Dimethyl carbamoyl chloride	Methyl ethyl ketone (2-butanone)
Calcium cyanamide	Dimethyl formamide	Methyl hydrazine
Caprolactam	1,1-Dimethyl hydrazine	Methyl iodide (iodomethane)
Captan	Dimethyl phthalate	Methyl isobutyl ketone (hexone)
Carbaryl	Dimethyl sulfate	Methyl isocyanate
Carbon disulfide	4,6-Dinitro-o-cresol, and salts	Methyl methacrylate
*Carbon tetrachloride	2,4-Dinitrophenol	Methyl tert butyl ether
Carbonyl sulfide	2,4-Dinitrotoluene	4,4-Methylene bis(2-chloroaniline)
Catechol	1,4-Dioxane (1,4-diethyleneoxide)	*Methylene chloride (dichloromethane)
Chloramben	1,2-Diphenylhydrazine	Methylene diphenyl diisocyanate (MDI)
Chlordane	Epichlorohydrin	4,4-Methylenedianiline
Chlorine	(1-chloro-2,3-epoxypropane)	Naphthalene
*Chlorinated dioxins and dibenzofurans (15 species)	1,2-Epoxybutane	*Nickel and nickel compounds
Chloroacetic acid	Ethyl acrylate	Nitrobenzene
2-Chloroacetophenone	Ethyl benzene	4-Nitrobiphenyl
Chlorobenzene	Ethyl carbamate (urethane)	4-Nitrophenol
Chlorobenzilate	Ethyl chloride (chloroethane)	2-Nitropropane
*Chloroform	*Ethylene dibromide (dibromoethane)	N-Nitroso-N-methylurea
Chloromethyl methyl ether	*Ethylene dichloride (1,2-dichloroethane)	N-Nitrosodimethylamine
Chloroprene	Ethylene glycol	N-Nitrosomorpholine
*Chromium VI	Ethylene imine (aziridine)	Parathion
	*Ethylene oxide	
	Ethylene thiourea	

Pentachloronitrobenzene (Quintobenzene)	*Trichloroethylene
Pentachlorophenol	2,4,5-Trichlorophenol
Phenol	2,4,6-Trichlorophenol
p-Phenylenediamine	Triethylamine
Phosgene	Trifluralin
Phosphine	2,2,4-Trimethylpentane
Phosphorus	Vinyl acetate
Phthalic anhydride	Vinyl bromide
Polychlorinated biphenyls (aroclers)	*Vinyl chloride
1,3-Propane sultone	Vinylidene chloride
beta-Propiolactone	(1,1-dichloroethylene)
Propionaldehyde	Xylenes (isomers and mixture)
Propoxur (Baygon)	m-Xylenes
Propylene dichloride (1,2-dichloropropane)	o-Xylenes
Propylene oxide	p-Xylenes
1,2-Propylenimine (2-methyl aziridine)	o Antimony Compounds
Quinoline	o Arsenic Compounds (inorganic including arsine)
Quinone	o Beryllium Compounds
Styrene	o Cadmium Compounds
Styrene oxide	o Chromium Compounds
2,3,7,8-Tetrachlorodibenzo-p-dioxin	o Cobalt Compounds
1,1,2,2-Tetrachloroethane	o Coke Oven Emissions
*Tetrachloroethylene (perchloroethylene)	o Cyanide Compounds ¹
Titanium tetrachloride	o Glycol Ethers ²
Toluene	o Lead Compounds
2,4-Toluene diamine	o Manganese Compounds
2,4-Toluene diisocyanate	o Mercury Compounds
o-Toluidine	o Fine Mineral Fibers ³
Toxaphene (chlorinated camphene)	o Nickel Compounds
1,2,4-Trichlorobenzene	o Polycyclic Organic Matter ⁴
1,1,2-Trichloroethane	o Radionuclides (including radon) ⁵
	o Selenium Compounds

* Substances which have already been identified by the Board as TACs and which have potency numbers developed by the OEHHA and SRP.

** AB 1807, Statutes 1983, chapter 1047, Health & Safety Code sections 39650 et. seq.
AB 2728, Statutes 1992, chapter 1161, Health & Safety Code sections 39655 et. seq.

II. Substances currently under review or nominated for review for identification as Toxic Air Contaminants.

A. Substances already in the review process.

Diesel exhaust

Inorganic lead

B. Substances nominated for review.

Dialkylnitrosamines

Environmental Tobacco Smoke

III. Substances which are being evaluated for entry into Category II (IIA or IIB). Factors considered in this evaluation include carcinogenic and noncarcinogenic health effects, emissions and exposure in California.

Aluminum	Gasoline vapors
Ammonia	Glutaraldehyde
Ammonium nitrate	Hexachlorocyclohexanes
Ammonium sulfate	Hydrogen sulfide
Barium compounds	Isopropyl alcohol
Benzoyl chloride	4,4'-Isopropylidenediphenol
Bis(2-ethylhexyl)adipate	Molybdenum trioxide
Bromine compounds (inorganic)	n-Butyl alcohol
Butyl acrylate	Nitric acid
Butyl benzyl phthalate	Nitrilotriacetic acid
Carbon black extracts	Peracetic acid
Chlorinated fluorocarbons	2-Phenylphenol
Chlorine dioxide	Phosphoric acid
Chlorophenols	Propene
Copper compounds	sec-Butyl alcohol
Creosotes	Silver Compounds
Crystalline silica	Sodium hydroxide
Cumene hydroperoxide	Sulfuric acid
Cyclohexane	Terephthalic acid
Decabromodiphenyl oxide	tert-Butyl alcohol
Diaminotoluene (mixed isomers)	Thiourea
Dicofol	1,2,4-Trimethylbenzene
	Zinc Compounds

Note: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

¹ X'CN where X=H' or any other group where a formal dissociation may occur. For example, KCN or Ca(CN)₂

² includes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol (R(OCH₂CH₂)_n-OR' where
n = 1,2 or 3
R = alkyl or aryl groups
R = R,H, or groups which, when removed, yield glycol ethers with the structure;
R(OCH₂CH)_n-OH. Polymers are excluded from the glycol category.

³ includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.

⁴ includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100° C.

⁵ a type of atom which spontaneously undergoes radioactive decay.